

Abstract

The invention relates to a medical-technology product with a layer of a hybrid complex material composed of a branched amphiphilic macromolecule and of a metal nanoparticle, to the use of a hybrid complex material composed of a branched amphiphilic macromolecule and of a metal nanoparticle as a biocide for medical-technology products, and also to a process for producing a hybrid complex material composed of a branched amphiphilic macromolecule and of a metal nanoparticle, by dissolving a metal compound, with complexing, followed by reduction of the metal compound, and to a process for producing medical-technology products wherein the hybrid complex material is applied from outside to the product or is added to the polymer material of the product during its production.

(Figure 1)